

ABSTRACT OF THE DISCLOSURE

An approach for creating and deploying quality of service templates in a packet telephony network is described. A database of network devices and interfaces, including specific values for parameters of each device and interface, is provided. A network management system receives location, authentication, and other specific values for devices in the network. The network management system creates and defines a template by receiving information about the network device by launching an SNMP conversation with the device and also a telnet session with the device. Based on the device QoS information and the interface information, one or more policies that associate traffic flows with the quality of service treatments are determined. Several network devices may be configured at the same time through the creation of device groups. Templates may reference device groups to accomplish rapid configuration of QoS values on multiple devices. After creation, policy templates are stored and retrieved from a database for implementation on an associated device. Policy templates are deployed to one or more devices in a network through generation of a first list of command line interface ("CLI") commands that correspond to properties for each device. Each block of CLI commands are sent to each device to be implemented.